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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,865	03/31/2004	Shu-Ping Chang	SOM920030005US2	5589
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EXAMINER				
JAIN, RAJ K				
ART UNIT		PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary**Application No.**

10/813,865

Applicant(s)

CHANG ET AL.

Examiner

RAJ K. JAIN

Art Unit

2616

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 February 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 and 15-28 is/are rejected.
- 7) ☒ Claim(s) 13 and 14 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/808)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1- 8, 15-24, 27 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Carino, Jr. (USP 5,754,841).

Regarding claim(s) 1, 17 and 28, Carino discloses a method for providing adaptive Quality of Service (QoS) (col 6 lines 63-66, client adapted Qos), the method comprising the steps of: selecting, based on one or more QoS criteria corresponding to a client, one or more given data items suitable for sending to the client in response to a query from the client, the one or more given data items selected from a set of data items (abstract, col 4 lines 9-27; col 6 lines 60-67, client 220 queries interface 206 with specific data items and user selected Qos criteria); and

determining one or more statistics associated with the one or more given data items (fig. 3A, col 8 lines 14-18, the resolver 308 optimizes client 220s query based on required data items); wherein the one or more statistics are useable to modify which data items are included in the set of data items (col 8 lines 45-53, 316 modifies the quire plan to accommodate for cost as required).

Regarding claim(s) 2 and 18, Carino discloses removing one of data items from the set of data items when the one data item has a corresponding statistic below a predetermined value (col 8 lines 25-37).

Regarding claim(s) 3 and 19, Carino discloses the data format comprises one or more of the following: file format of the one or more given data items; compression technique used to create the one or more given data items; compression level of the one or more given data items; image dimensions for the one or more given data items; and text size for the one or more given data items (col 10 line 58 – col 11 line 9).

Regarding claim(s) 4 and 20, Carino discloses one or more QoS criteria comprise one or more of the following: a QoS subscription of a user, network constraints, device constraints, user preferences, a QoS level, and organizational policies (col 6 lines 63-67; col 9 lines 60-67).

Regarding claim(s) 5 and 21, Carino discloses the one or more QoS criteria comprise one or more organizational policies and at least one of the one or more organizational policies comprises a cost (col 8 lines 13-25; lines 45-44; col 14 lines 16-25).

Regarding claim(s) 6 and 22, Carino discloses various data items as video, audio etc (Fig. 1, col 3 lines 49-61).

Regarding claim(s) 7 and 23, Carino discloses selecting at least a portion of the one or more QoS criteria by using one or more of the following: a user identification corresponding to the client and a device identification corresponding to the client (col 6 lines 63-67).

Regarding claim(s) 8 and 24, Carino discloses plurality of resources associated with the communication network and wherein the step of determining one or more given data items further comprises the step of determining if a given data item meets the one or more QoS criteria (col 6 line 60 – col 7 line 15, Qos criteria is selected by client based on data to be traversed such as video, audio etc.).

Regarding claim(s) 15, 16 and 27, Carino discloses series of query plans to be executed (col 4 lines 60-65; col 9 lines 42-67).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 9, 10, 11 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carino, Jr. (USP 5,754,841) in view of Walpole et al (US 2003/0233464)

Regarding claim(s) 9, 11 and 25, Carion fails to disclose transcoding of data based on specific QoS criteria.

Walpole discloses transcoding of data based on specific QoS criteria (paras 38, 42). Adapting data in a shared heterogeneous network environment, such as the Internet, relates to quality-adaptive streaming transmission of data in such an environment. Thus it would have been obvious at the time the invention was made to

incorporate the teachings of Walpole within Carion so as to provide an heterogeneous network environment for different data types between clients and servers.

Regarding claim(s) 10, Carion fails to disclose priority labeling based on specific QoS criteria. Walpole discloses priority labeling based on specific QoS criteria (para 15). Reasons for combining same as for claim 9 above.

Claim 12 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carino, Jr. (USP 5,754,841) in view of Aggarwal et al (US 20030081624 A1)

Carino fails to disclose QoS criteria levels or predefined QoS levels based on subscriber requirements.

Aggarwal discloses QoS criteria levels or predefined QoS levels based on subscriber requirements (abstract, paras 14 & 25.) Differing QoS levels provides for improved traffic management in network devices, e.g., routers, switches and other traffic bearing nodes (collectively, "network devices") and therefore reducing switching conflict delays, and that support multiple services simultaneously, i.e., any protocol on any interface port in a network device. Thus it would have been obvious at the time the invention was made to incorporate the teachings of Aggarwal within Carino so as to improve network performance to allow for multiple services to be performed simultaneously on a given network as desired.

Allowable Subject Matter

Claims 13 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed February 6, 2008 have been fully considered but they are not persuasive.

Regarding claims 1, 17 and 28, Applicant contends Carino fails to disclose "data items are selected based on one or more QoS criteria".

Examiner respectfully disagrees, the subject claims do not recite "*data items are selected based on one or more QoS criteria*" and therefore Applicant's contention is moot .

Applicant further contends that Carino fails to disclose "selecting, based on one or more QoS criteria corresponding to a client, one or more given data items suitable for sending to the client."

Examiner respectfully disagrees Carino explicitly discloses communication establishment according to performance criteria selected by a client 220 with interface 202 based on specific user selected QoS criteria (Fig. 2, col 6 lines 60-67). Furthermore, the object server 212 stores and transfers data according to the client 220 based on specific QoS parameters (col 5 lines 30-34, col 6 lines 60-67). Thus based on above Examiner asserts Carino discloses all cited limitations of subject claims and therefore the rejection to claims 1, 17 and 28 is sustained.

Furthermore Claims 2-16 and 18-27 are dependent on independent claims 1 and 17, respectively, and are not patentably distinguished over one or more of the cited references (Walpole, and Aggarwal) either alone or in combination, and therefore the rejection to claims 2-16 and 18-27 is sustained.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **RAJ K. JAIN** whose telephone number is (571)272-3145. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Raj K. Jain/

Primary Examiner, Art Unit 2616

May 18, 2008